

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 - 4. (Canceled)

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5. (Currently amended) The ~~mobile routing device~~ system of claim ~~27~~ 2, in which ~~the hub comprises a plurality of router network adapters~~, each router network adapter ~~sends~~ sending a network control process message to a Router Module indicating whether ~~the~~ an associated wireless network is operational.

6. (Currently amended) The ~~mobile routing device~~ system of claim 5, in which the Router Module selects one of the wireless networks from a plurality of candidate wireless networks for data transmission only when the Router Module has received the message indicating that the associated candidate wireless network is operational.

7. (Currently amended) The ~~mobile routing device~~ system of claim 6, further comprising a ~~in which the~~ Local Area Network ~~comprises~~ comprising at least one Host Application, ~~the sending application further comprising the at least one Host Application.~~

8. (Currently amended) The ~~mobile routing device~~ system of claim 6, in which the Router Module generates a Route Registration packet and sends the Route Registration packet to the server ~~Host Network Server~~, when the Router Module has selected a new wireless network, the Route Registration packet comprising ~~the~~ a gateway address of the new wireless network and ~~the~~ end point addresses that can be reached via the gateway address,

wherein the server ~~Host Network Server~~ remains aware of all end point addresses that can be reached via the gateway address contained in the Route Registration packet.

9. (Currently amended) The ~~mobile routing device~~ system of claim ~~27~~ 1, ~~in which~~

further comprising a ~~second~~ mobile routing device that sends data to one of the mobile routing device clients via the ~~server-Host Network Server~~ using the ~~end point address~~,

wherein the ~~second~~ mobile routing device sends data to the client device via the ~~mobile routing device hub~~, via the ~~server-Host Network Server~~, and at least one of the wireless networks using only the an end point address so that the ~~second~~ mobile routing device is unaware of the wireless networks used to transport the data and the corresponding gateway addresses.

10. (Currently amended) The ~~mobile routing device system~~ of claim 5 ~~†~~, further comprising a Router Configuration Module that reads in configuration data for each router network adapter ~~and for each client router network adapter~~, the configuration data comprising ~~the~~ a gateway addresses and ~~the~~ at least one end point ~~address~~ addresses.

11. (Currently amended) The ~~mobile routing device system~~ of claim 27 ~~†~~, in which ~~the~~ a gateway address comprises an IP address and the wireless networks comprise ~~network comprises an IP networks network~~.

12. (Currently amended) The ~~mobile routing device system~~ of claim 27 ~~†~~, in which ~~the~~ a gateway address comprises a hardware address ~~and the wireless network comprises a non-IP network~~.

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13 - 14. (Canceled)

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15. (Currently amended) The method of claim 24 ~~†4~~, in which the analyzing further comprising ~~comprises~~:

determining whether the source address is present in a route table;

updating the route table to reflect that data has been received from the wireless network corresponding to the source address, if the source address is present in the route table; and

adding the source address to the route table, if the source address is not present in the route table.

16. (Currently amended) The method of claim 24 ~~13~~, ~~in which the receiving~~  
further comprising ~~comprises~~:

receiving the data at an IP stack from a Local Area Network; and  
forwarding the data to a Router Manager.

17. (Currently amended) The method of claim 24 ~~13~~, ~~in which the ascertaining~~  
further comprising ~~comprises~~:  
determining a subnet that the end point address resides on, and looking up a ~~the~~ gateway  
address in ~~the~~ a route table based upon the subnet.

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18 - 20. (Canceled)

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21. The ~~Host Network Server~~ system of claim 27 ~~20~~, in which the server further  
comprises ~~further comprising~~ a route table that associates each end point address with at  
least one gateway address,

wherein the ~~Host Network Server~~ server determines a wireless network to  
use for sending data to each end point address based upon a lookup in the route table.

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22 - 23. (Canceled)

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24. (New) A method for routing data between a Host Network Server and a client  
device over multiple dissimilar wireless networks connected between the Host Network  
Server and the client device, the method comprising:

receiving a data packet having a source address and an end point address;

looking up the source address of the data packet in a security table to determine  
whether the end point address is associated with the source address in the security table;

when the source address/end point address combination exists, forwarding the  
packet, via an associated one of the multiple networks associated with the end point  
address, to the end point address

receiving a subsequent consecutive data packet having the source address and the  
end point address;

looking up the source address of the subsequent consecutive data packet in the security table to determine whether the end point address is associated with the source address in the security table; and

when the source address/end point address combination exists, forwarding the packet, via another associated one of the multiple networks associated with the end point address, to the end point address.

25. (New) A method for routing data between a source and a destination over multiple dissimilar wireless networks connected between the source and the destination, the method comprising:

receiving an information packet that informs the destination when the source switches transmitting from a first network to a second network of the multiple dissimilar wireless networks;

updating a routing table based upon the information packet; and

sending and receiving data over the second network based upon the updated routing table.

26. (New) A method for routing data between a source and a destination over multiple wireless networks connected between the source and the destination, the method comprising:

transmitting data over a first network of the multiple dissimilar wireless networks;

dynamically switching from the first network to a second network during data transmission; and

transmitting data over the second network of the multiple dissimilar wireless networks.

27. (New) A mobile system comprising:

a mobile hub connected to a plurality of dissimilar wireless networks;

a plurality of mobile clients connected to the mobile hub; and

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at least one server connected to the mobile hub via the plurality of dissimilar wireless networks,

wherein a transmission between the mobile hub and the at least one server occurs while switching between at least two of the plurality of dissimilar networks so that the plurality of mobile clients roam between networks.

28. (New) The method of claim 24, further comprising discarding the packet when the combination does not exist.

29. (New) The method of claim 25, in which the information packet further comprises end point addresses that can be reached via the source.

30. (New) The method of claim 25, in which the information packet further comprises a gateway address of the new network.

31. (New) A computer readable medium storing a program for routing data between a Host Network Server and a client device over multiple dissimilar wireless networks connected between the Host Network Server and the client device, the program comprising:

a first receiving source code segment that receives a data packet having a source address and an end point address;

a first look up source code segment that looks up the source address of the data packet in a security table to determine whether the end point address is associated with the source address in the security table;

a first forwarding source code segment that, when the source address/end point address combination exists, forwards the packet, via an associated one of the multiple networks associated with the end point address, to the end point address

a second receiving source code segment that receives a subsequent consecutive data packet having the source address and the end point address;

a second look up source code segment that looks up the source address of the

subsequent consecutive data packet in the security table to determine whether the end point address is associated with the source address in the security table; and

a second forwarding source code segment that, when the source address/end point address combination exists, forwards the packet, via another associated one of the multiple networks associated with the end point address, to the end point address.

32. (New) The medium of claim 31, further comprising:

a determining source code segment that determines whether the source address is present in a route table;

an updating source code segment that updates the route table to reflect that data has been received from the wireless network corresponding to the source address, if the source address is present in the route table; and

an adding source code segment that adds the source address to the route table, if the source address is not present in the route table.

33. (New) The medium of claim 31, in which the data is received at an IP stack from a Local Area Network, and the data is forwarded to a Router Manager.

34. (New) The medium of claim 31, further comprising a determining source code segment that determines a subnet that the end point address resides on, and looks up a gateway address in a route table based upon the subnet.

35. (New) The medium of claim 31, further comprising a discard source code segment that discards the packet when the combination does not exist.

36. (New) A computer readable medium storing a program for routing data between a source and a destination over multiple dissimilar wireless networks connected between the source and the destination, the program comprising:

a receiving source code segment that receives an information packet that informs the destination when the source switches transmitting from a first network to a second network of the multiple dissimilar wireless networks;

an updating source code segment that updates a routing table based upon the information packet; and

a sending and receiving source code segment that sends and receives data over the second network based upon the updated routing table.

37. (New) The medium of claim 36, in which the information packet further comprises end point addresses that can be reached via the source.

38. (New) The medium of claim 36, in which the information packet further comprises a gateway address of the new network.

39. (New) A computer readable medium storing a program for routing data between a source and a destination over multiple wireless networks connected between the source and the destination, the medium comprising:

a first transmitting source code segment that transmits data over a first network of the multiple dissimilar wireless networks;

a switching source code segment that dynamically switches from the first network to a second network during data transmission; and

a second transmitting source code segment that transmits data over the second network of the multiple dissimilar wireless networks.

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